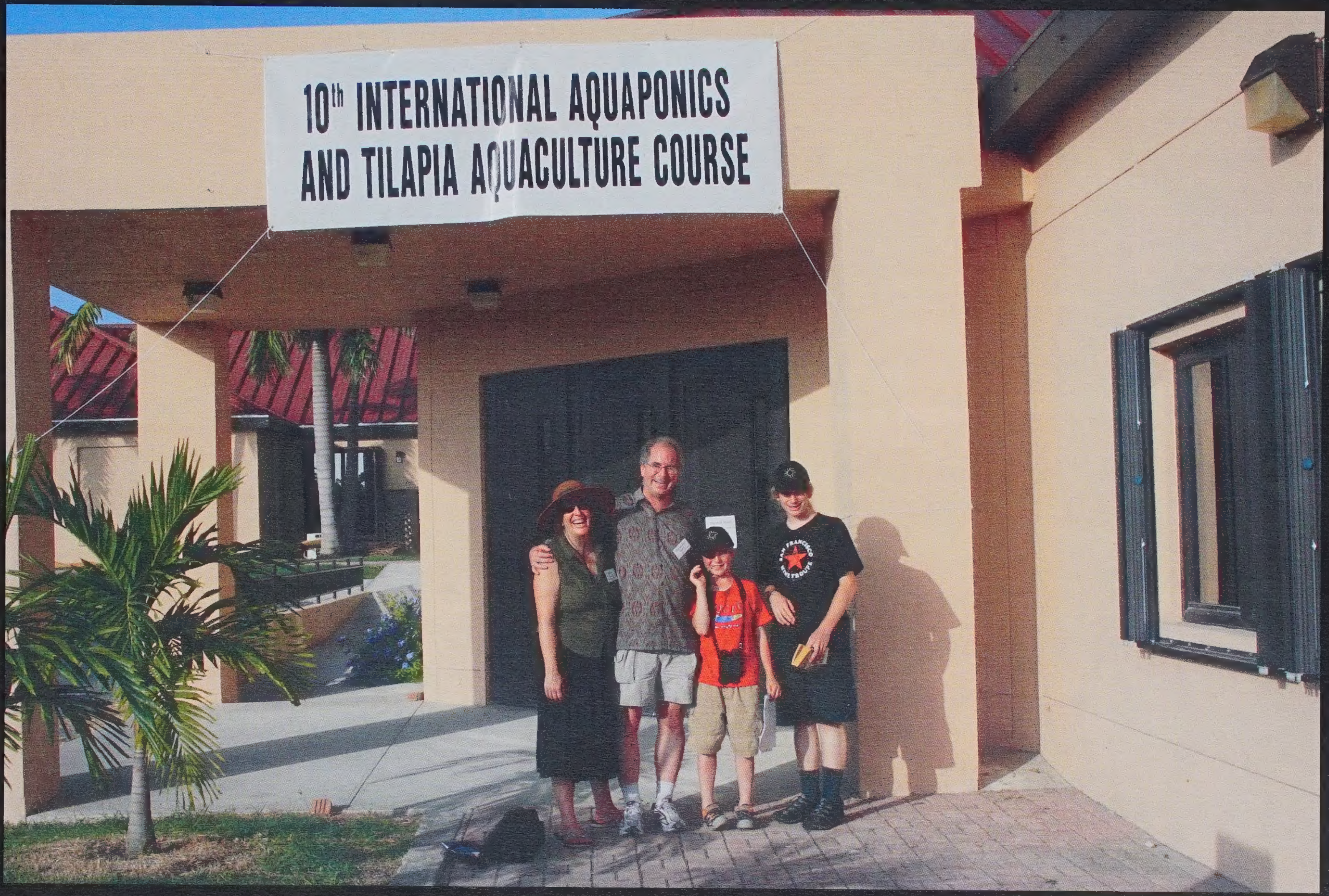
dinner

Aquaponics

Raising Fish and Plants Symbiotically

University of the Virgin Islands
SQUID

University of the Virgin Islands


10th INTERNATIONAL AQUAPONICS
AND TILAPIA AQUACULTURE COURSE

Aquaponics 6/08 Virgin Islands

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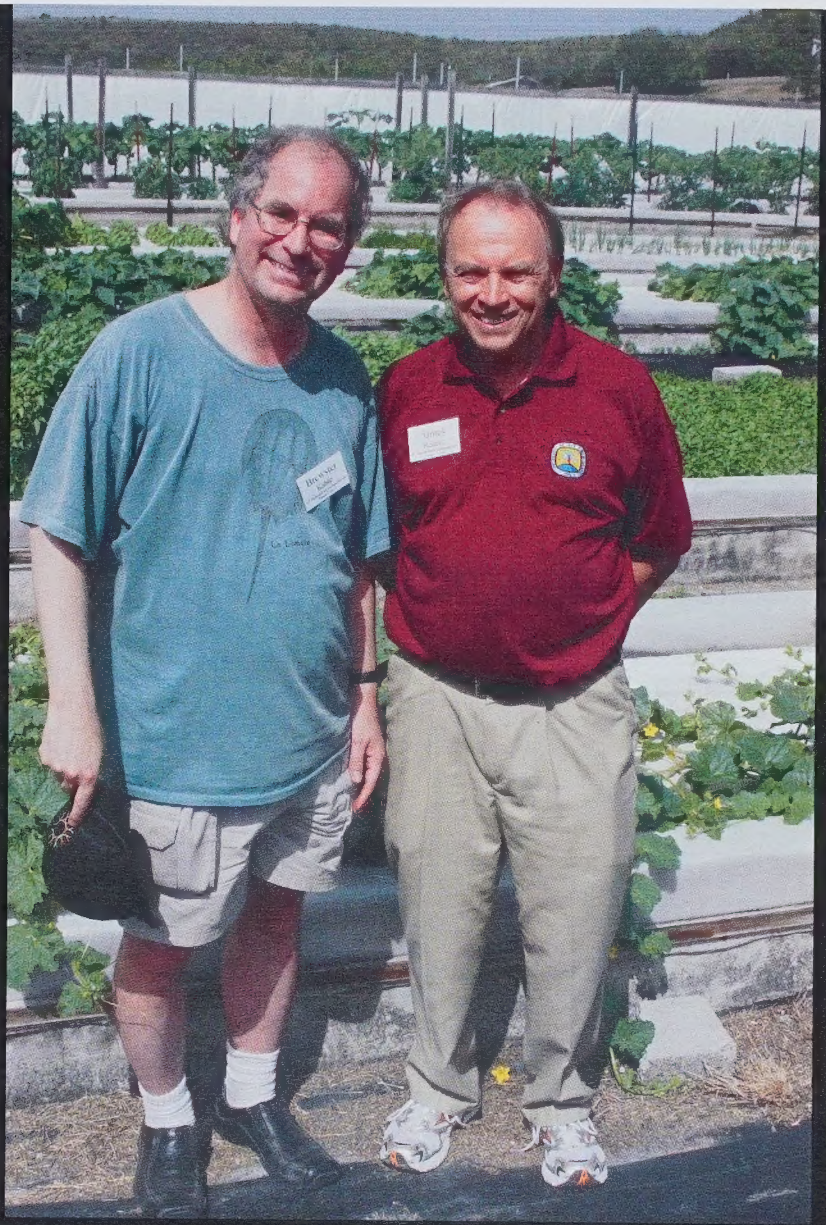
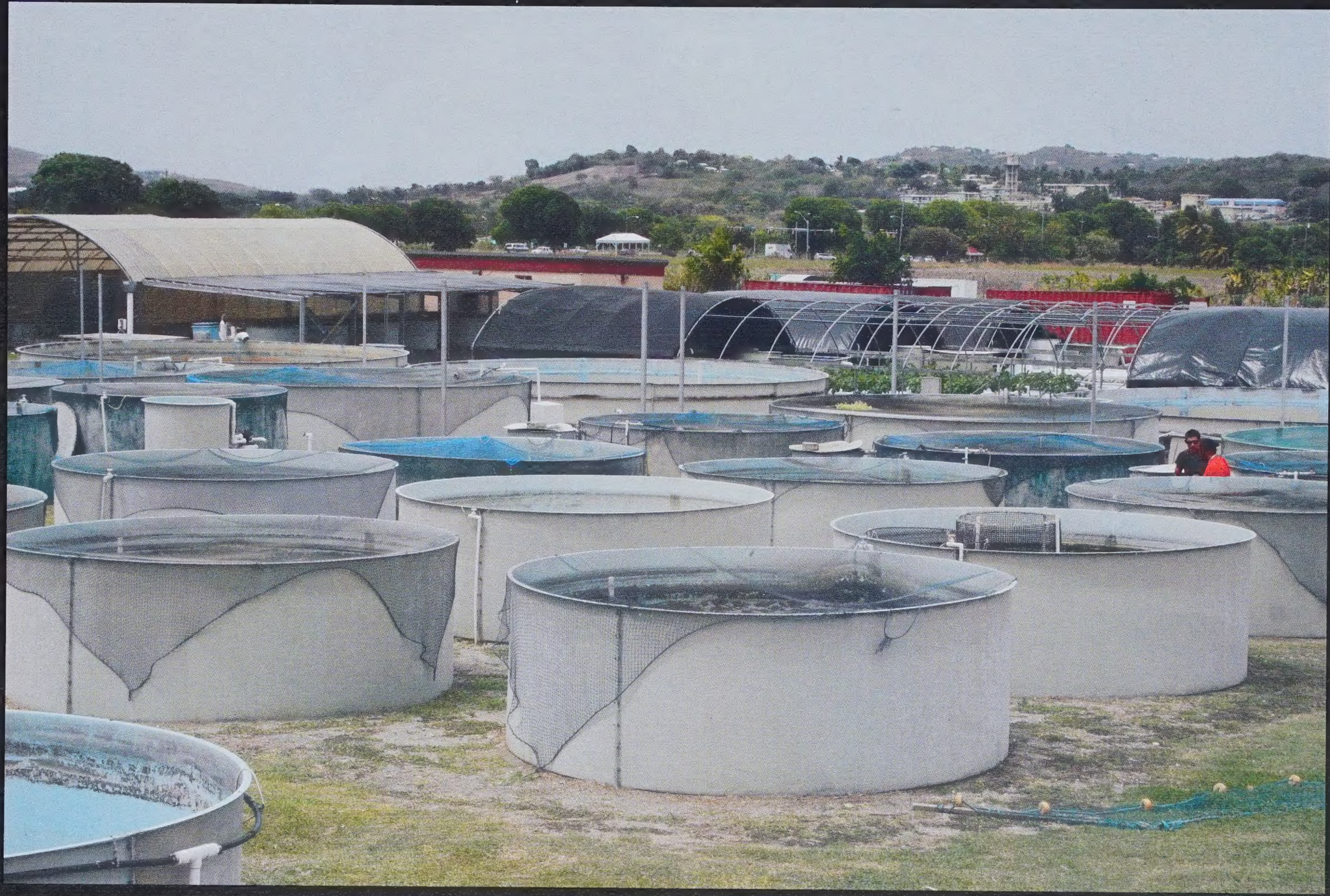
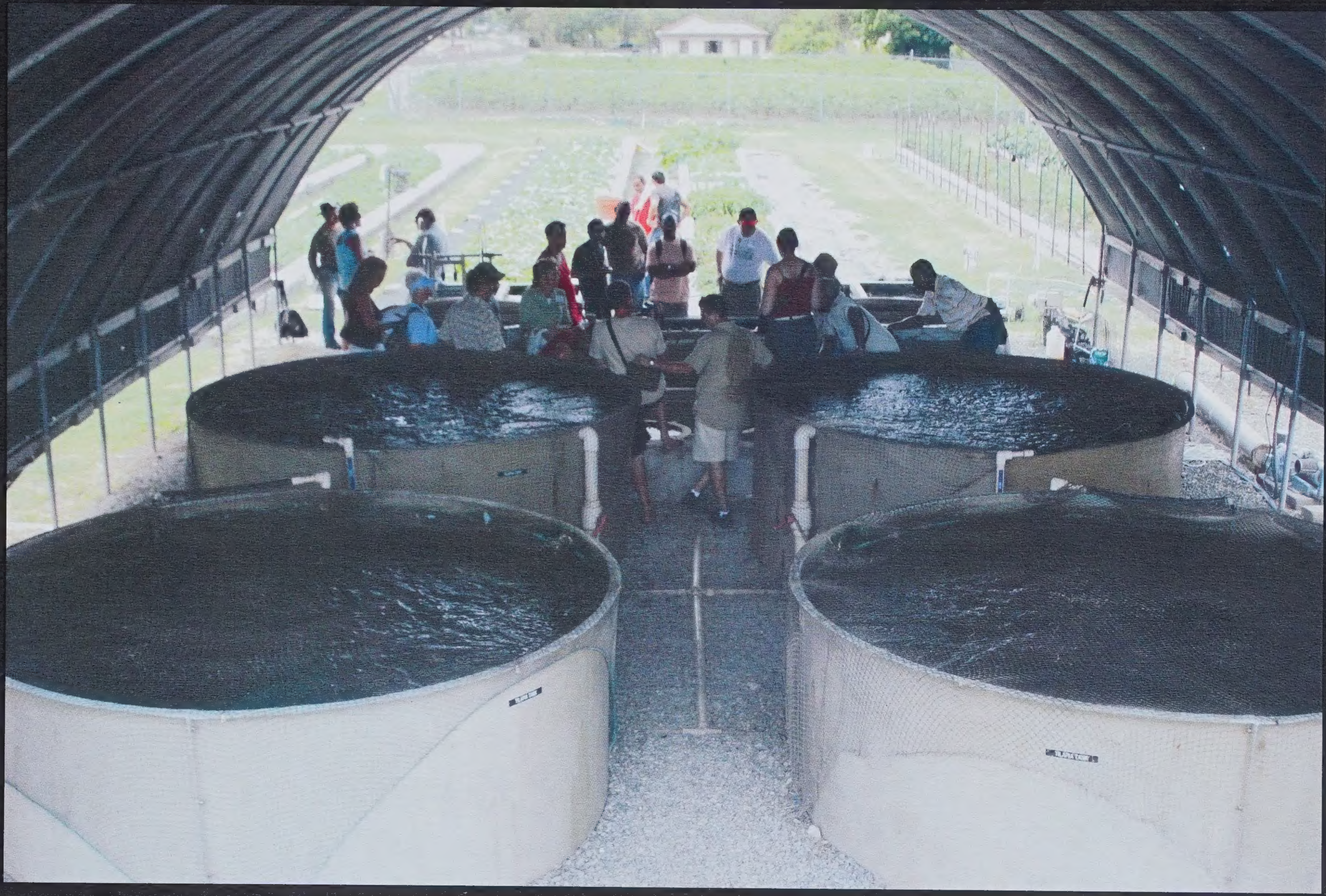


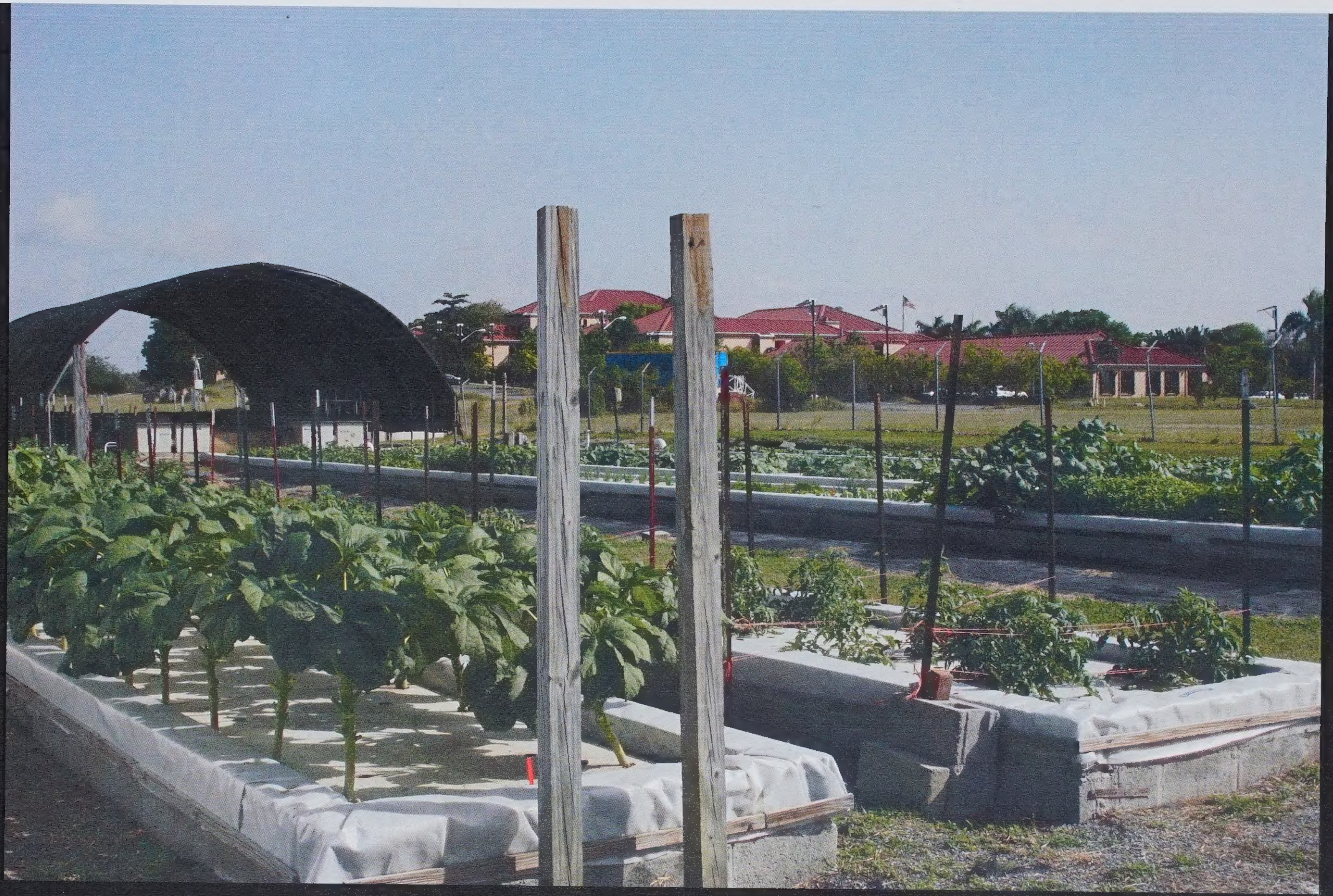
guru of aquaponics
prof. jim rakocy (and brewster)



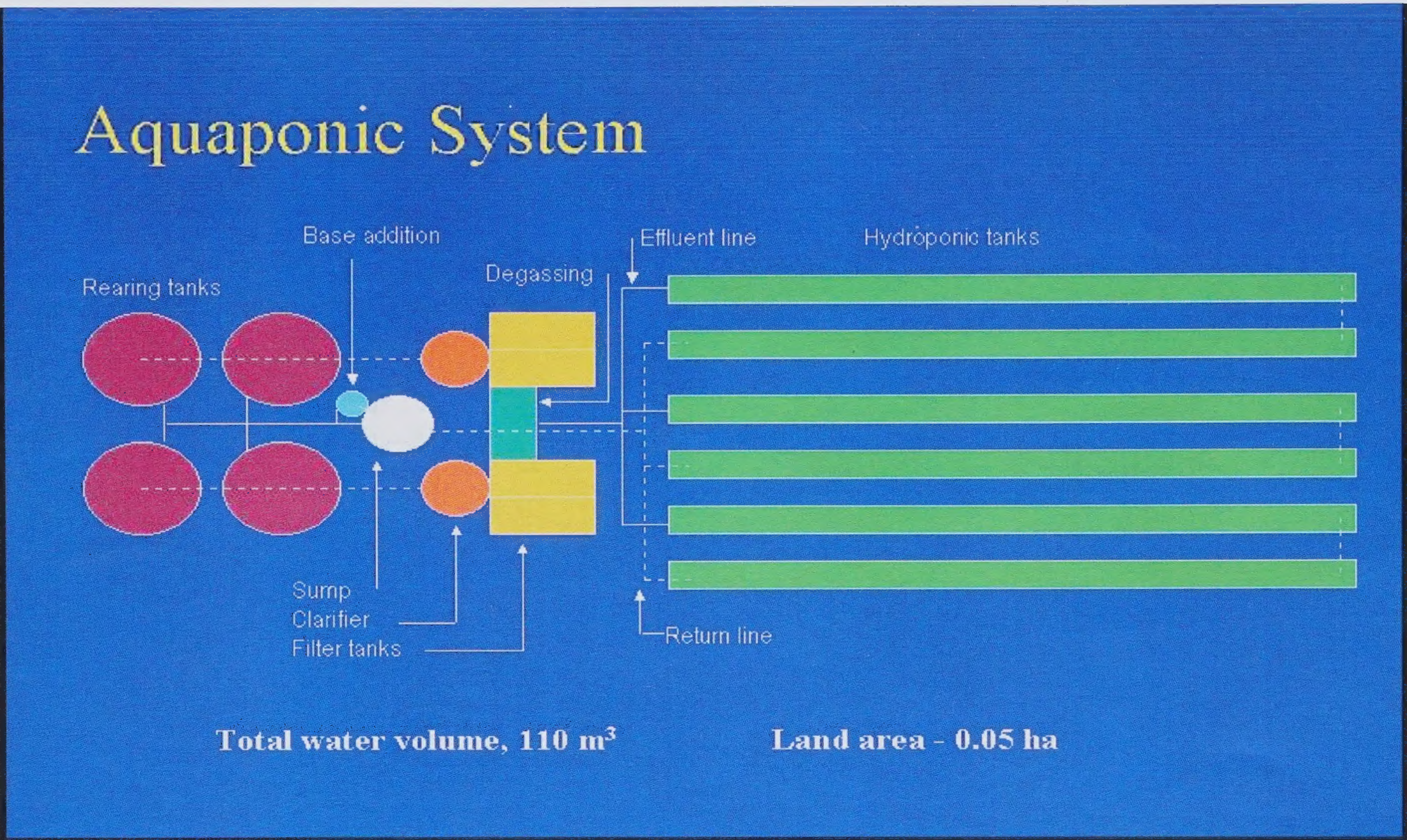
experimental research station



4 tank system (fish side)



4 tank system (veggie side)



Aquaponic System

Base addition
Effluent line
Hydroponic tanks
Degassing
Rearing tanks
Sump
Clarifier
Filter tanks
Return line

Total water volume, 110 m^3

Land area - 0.05 ha

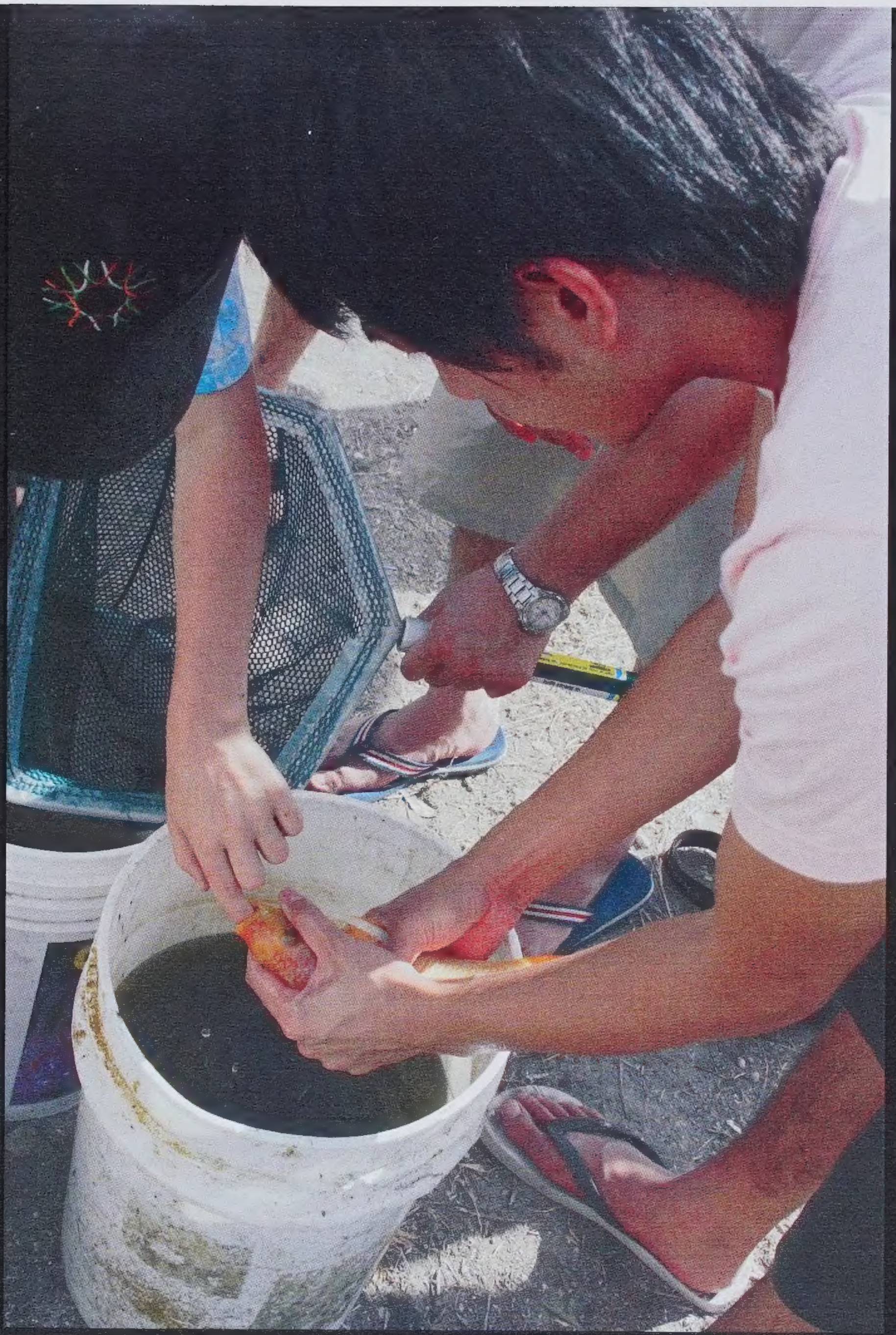
4 Tank system
11k lbs of fish/year (!);
14k lbs of veggies
1/8 Acre, 5000 sq ft; 450gal H2O/day

result: fish and veggies

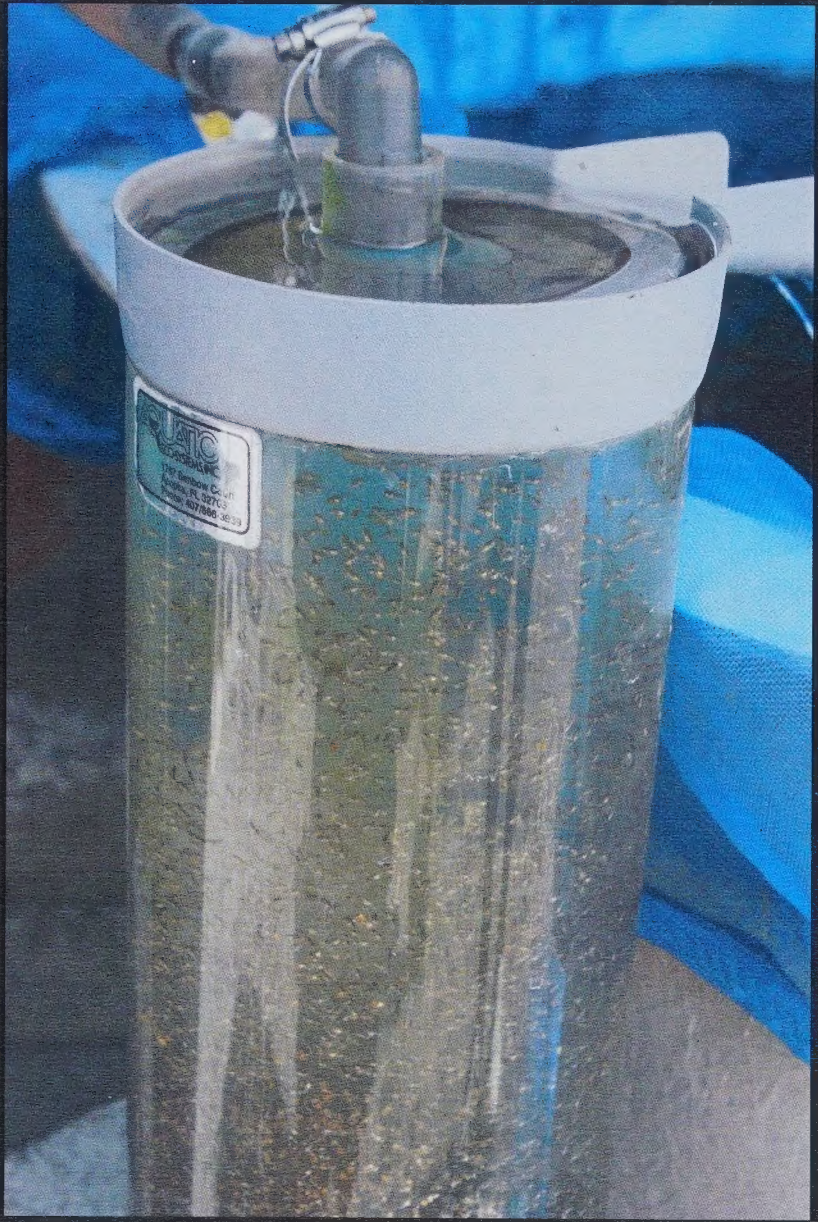
How it works

Fish

mating tanks (with the huppa)
logan catching female

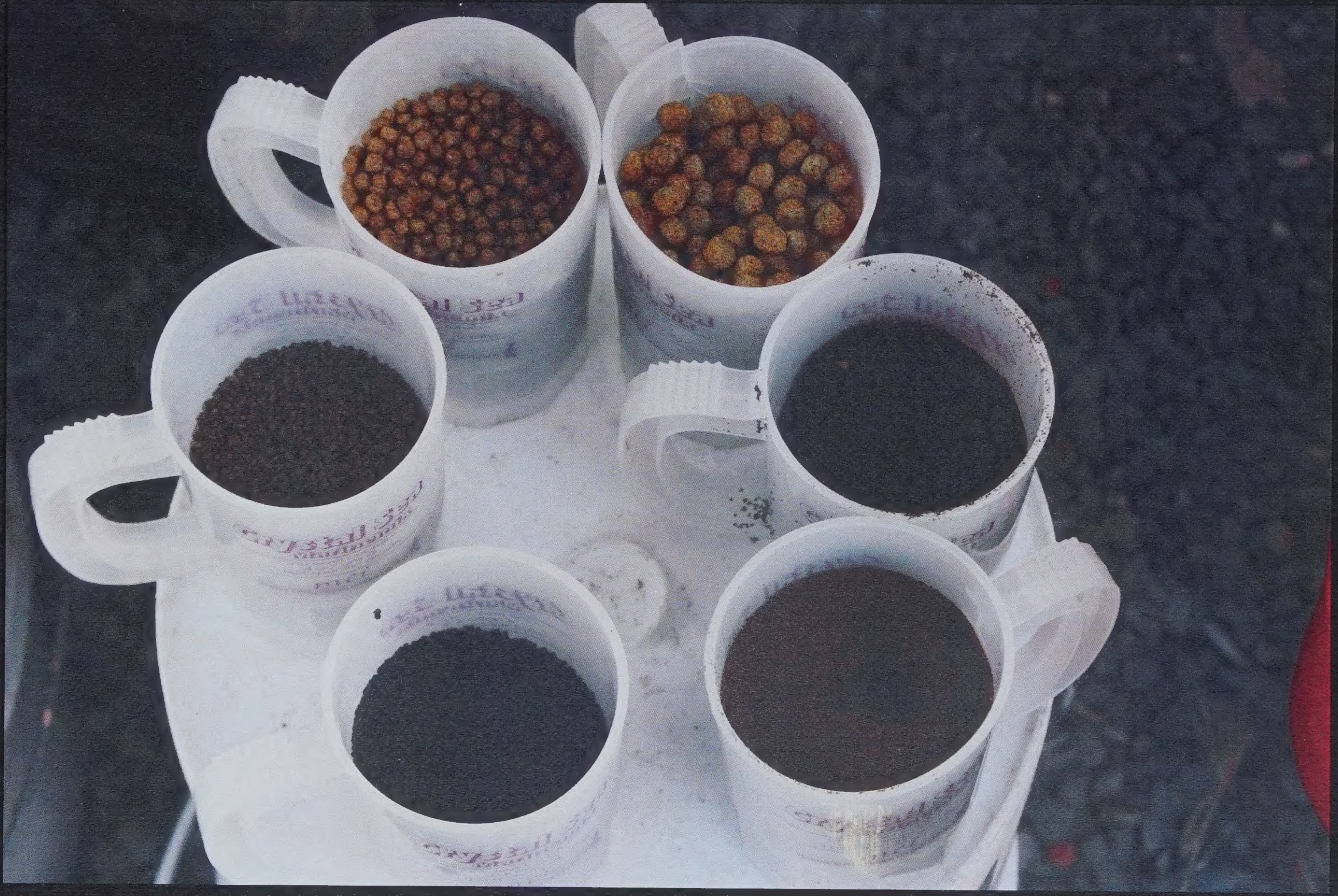


female with eggs in mouth

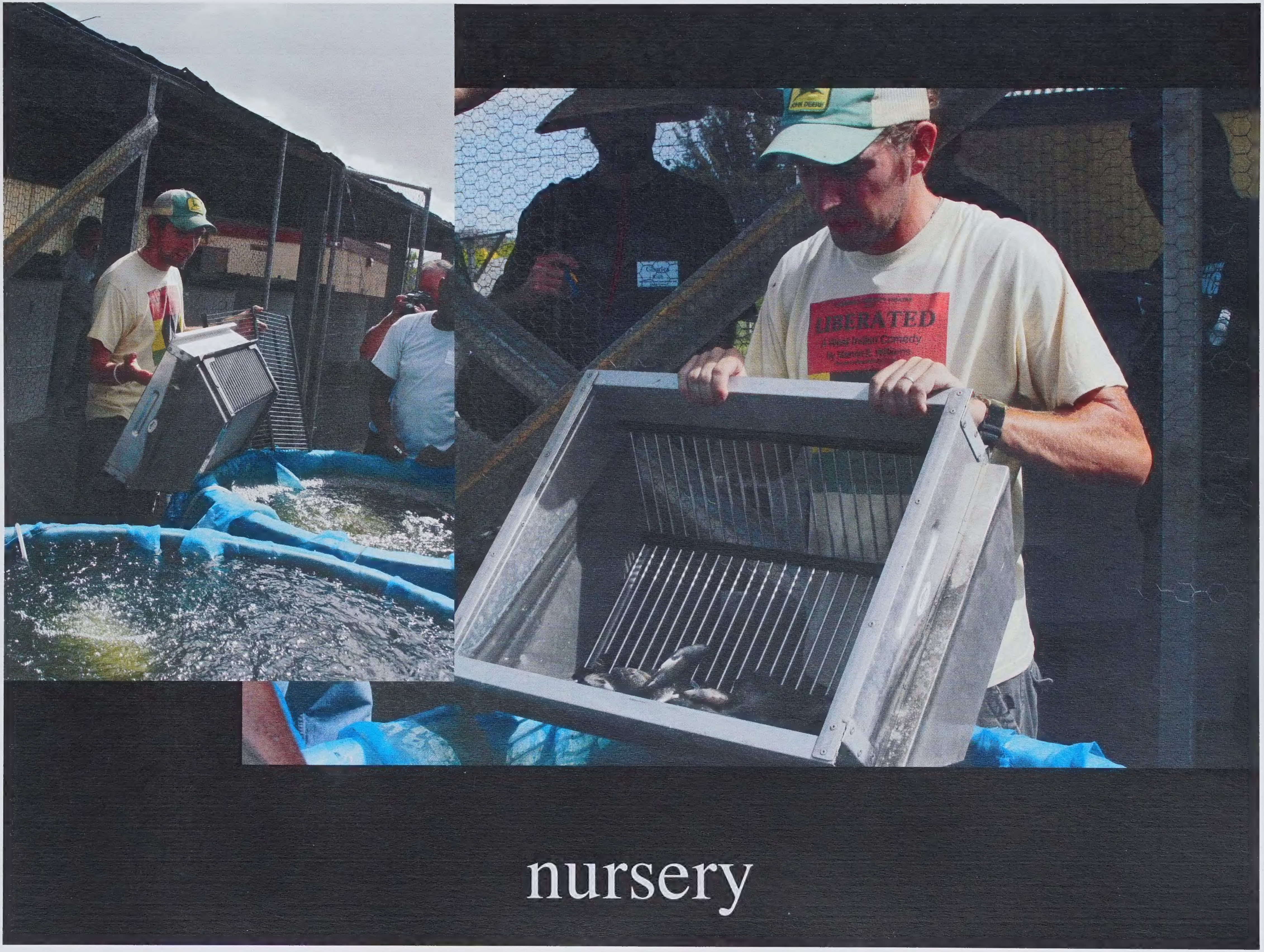


glass tank for hatching

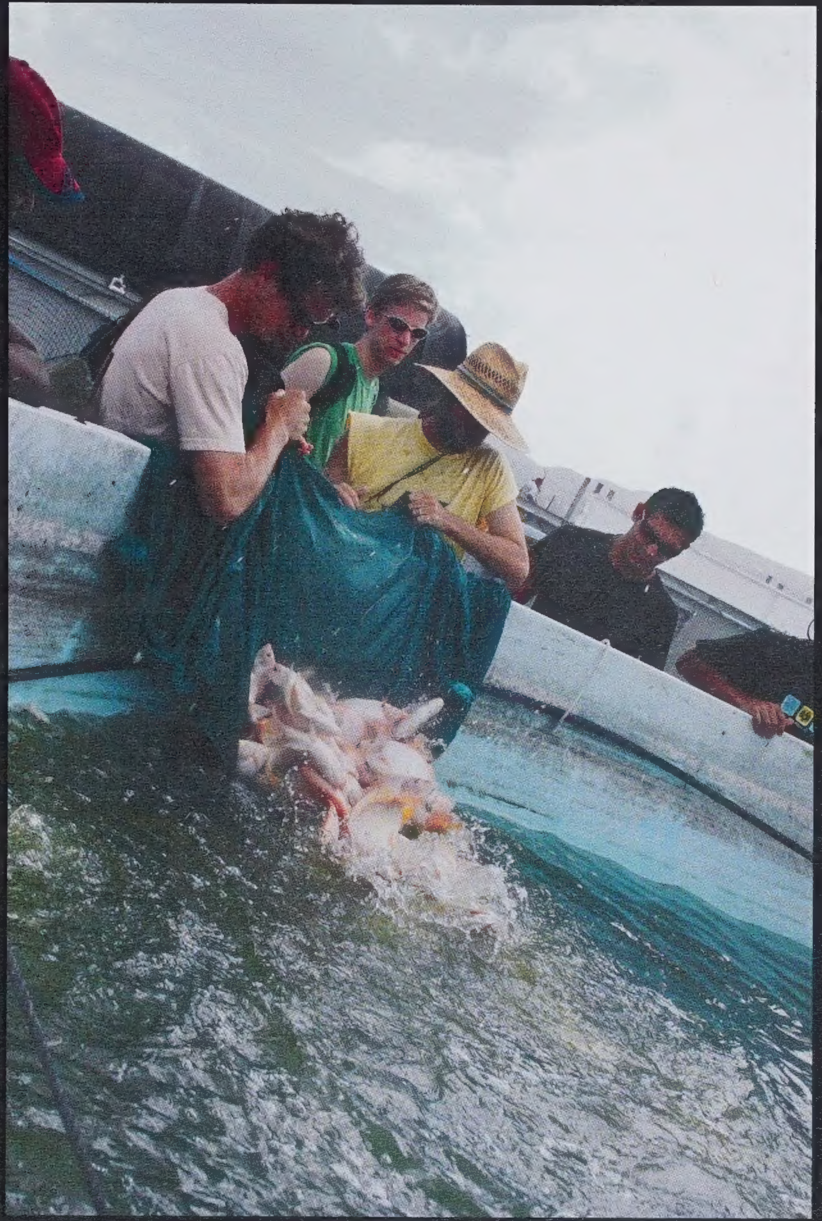
sex change to all males using synthetic testosterone

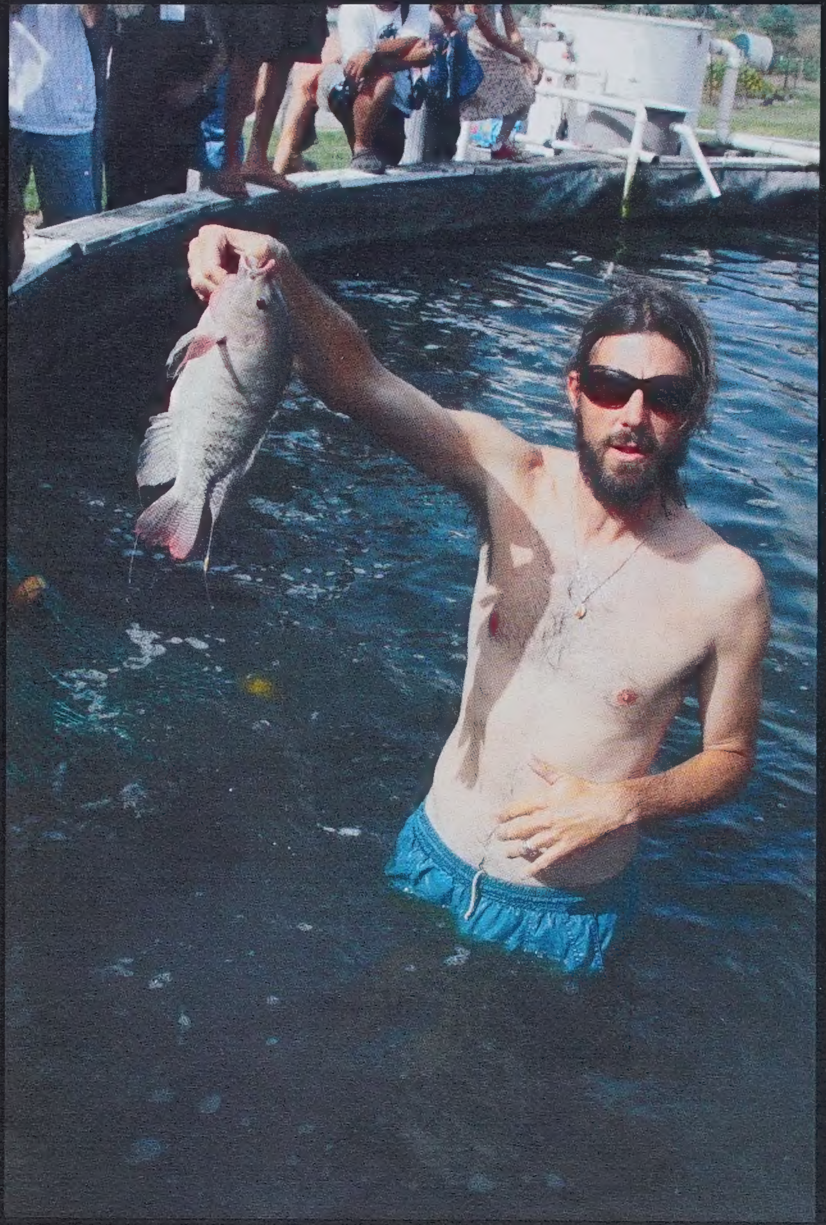


Feed pellets change as fish grow

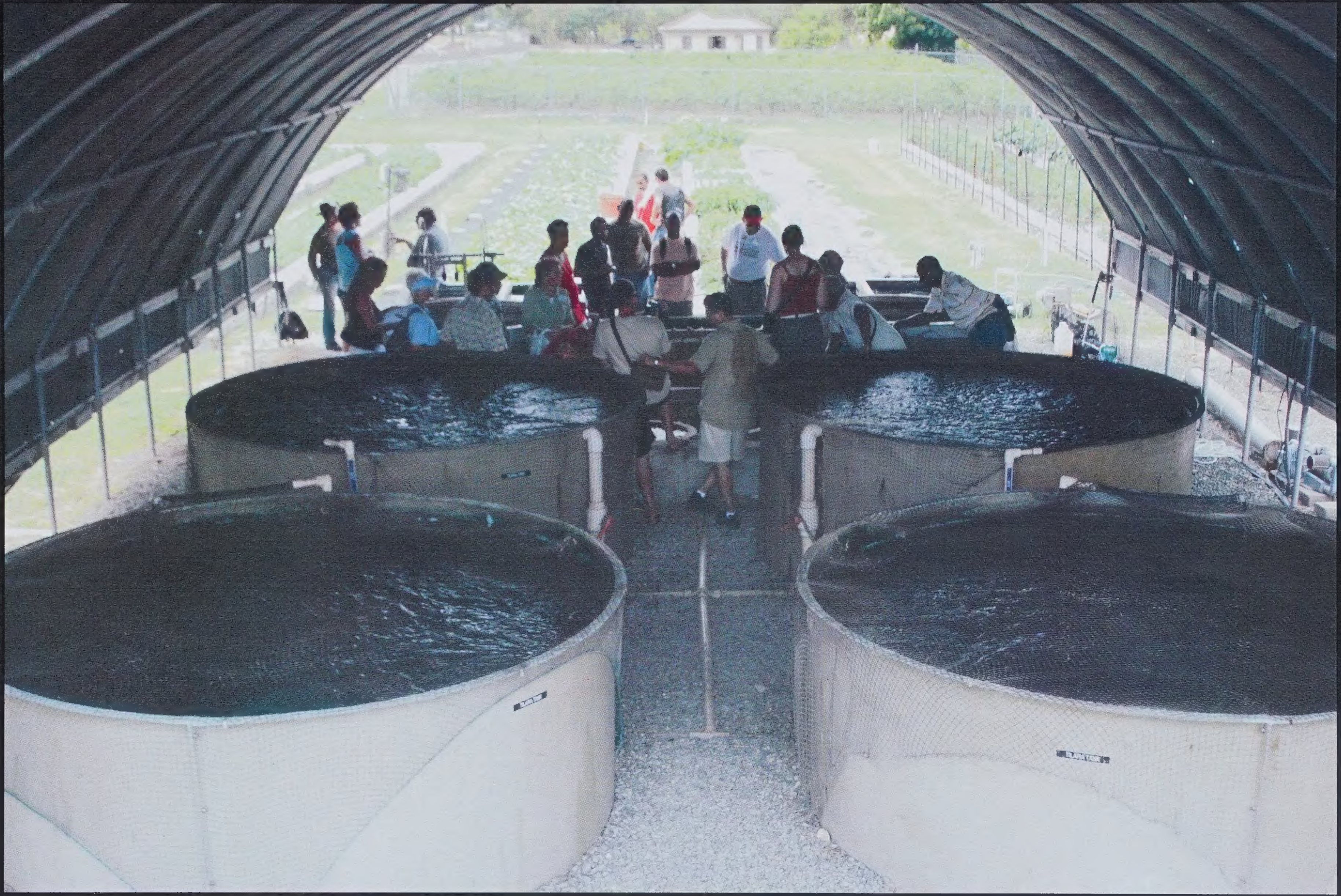

JOHN DEERE
LIBERATED
A Real Indian Comedy

nursery

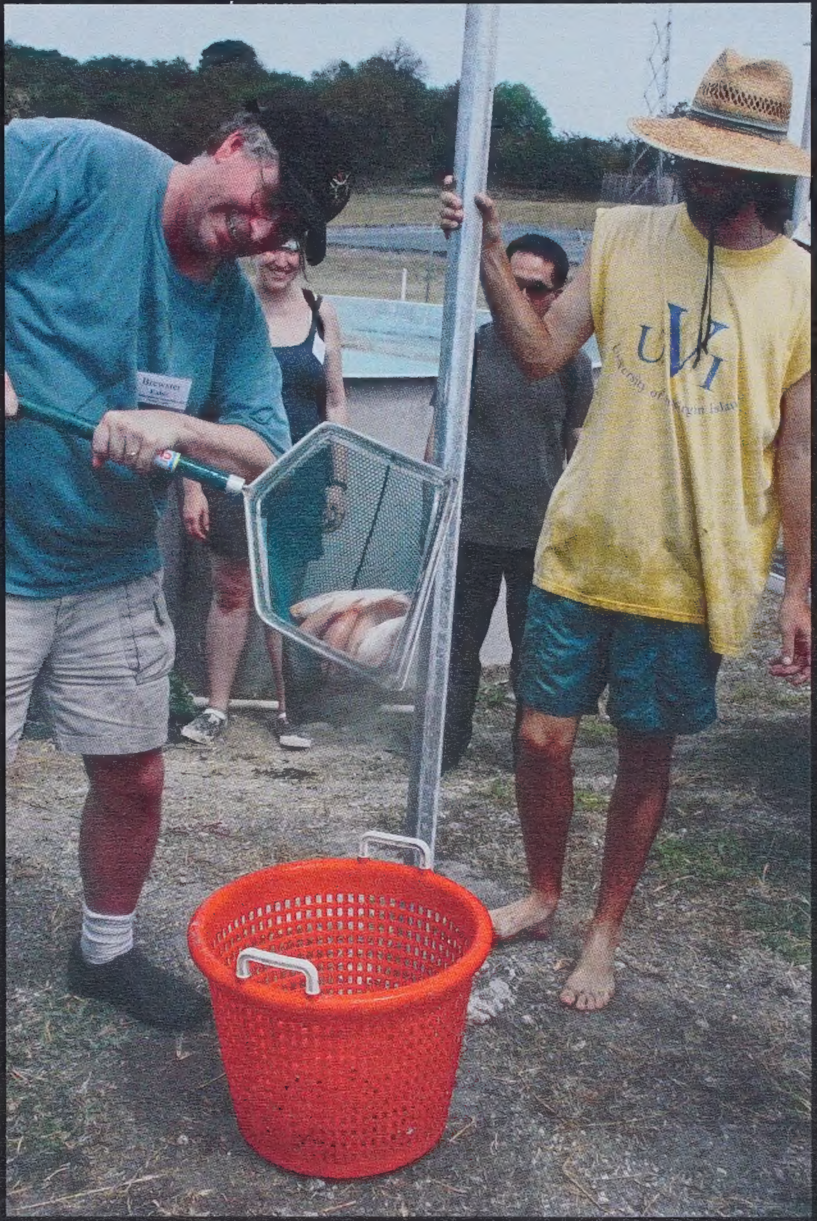




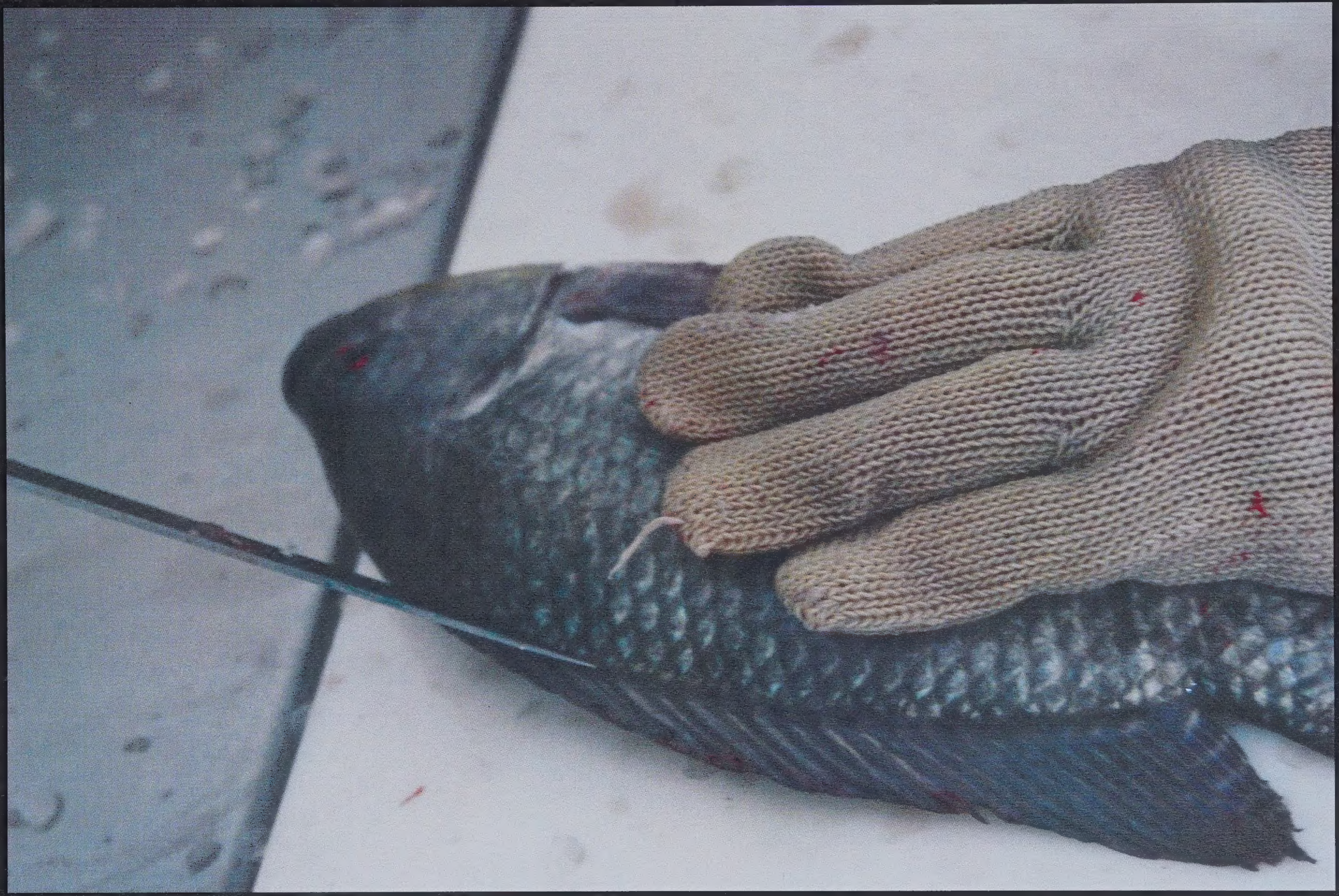
lots of fish in a tank



4 tank system



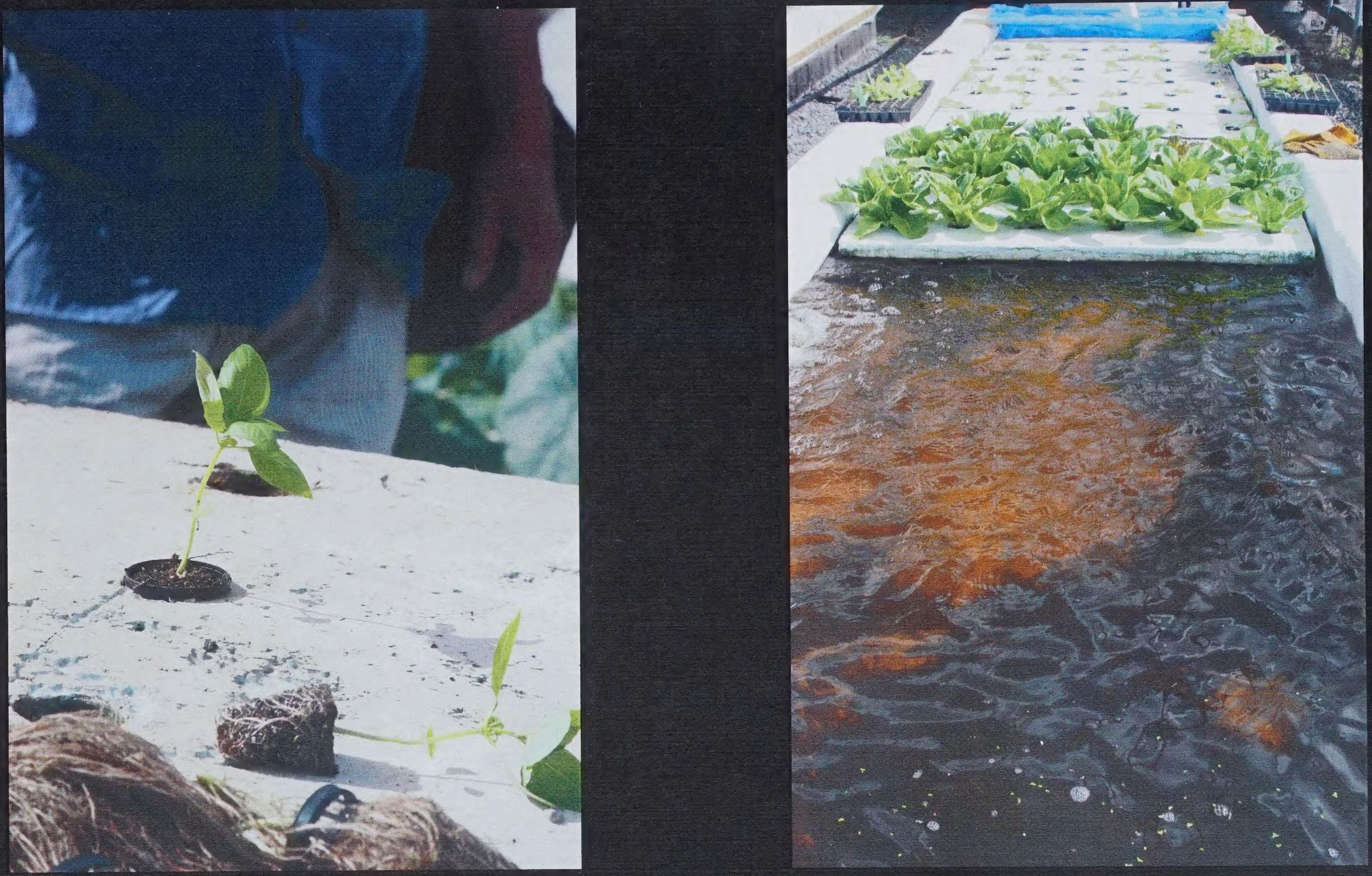
harvest fish



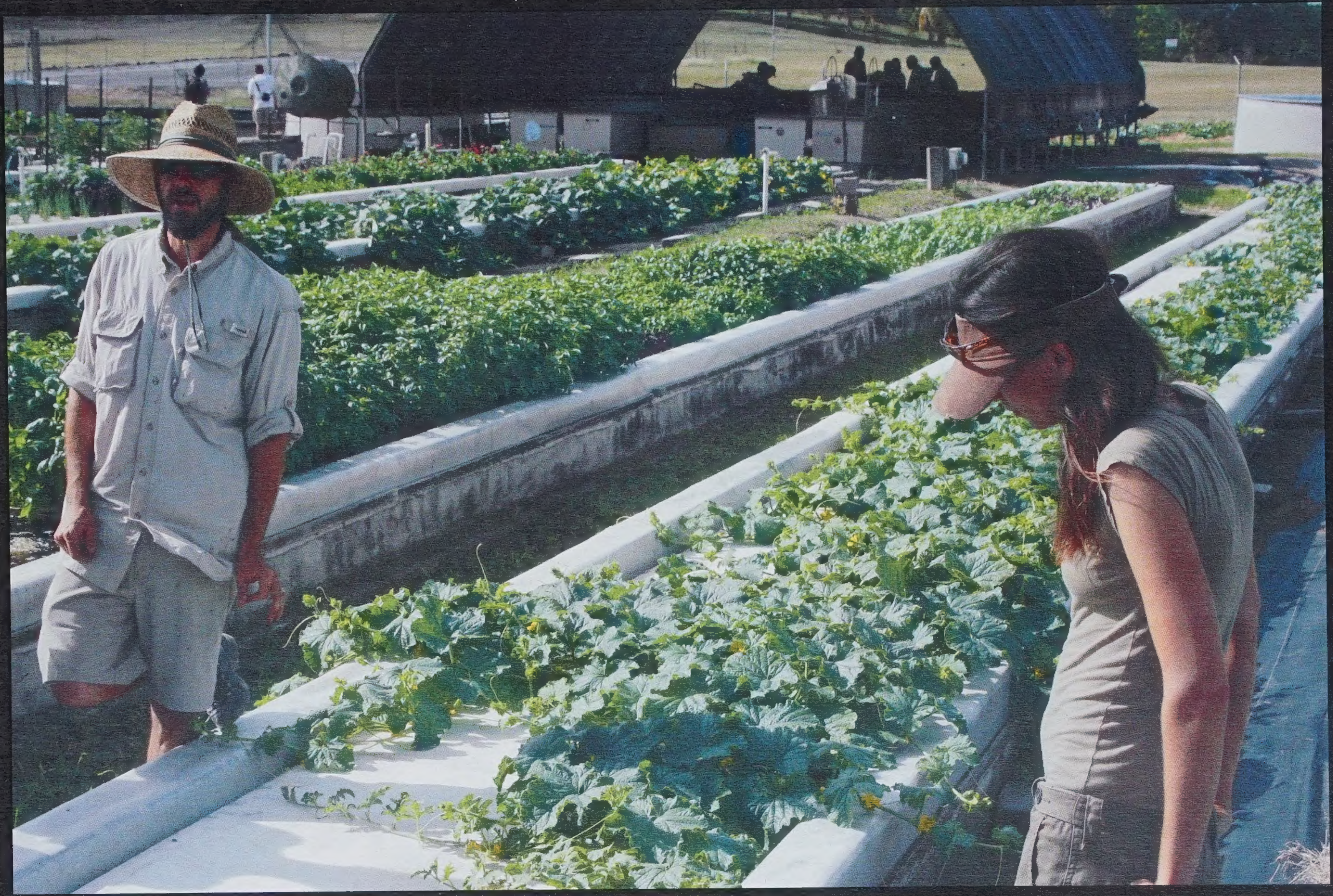
fillet a fish

Vegetables

nursery

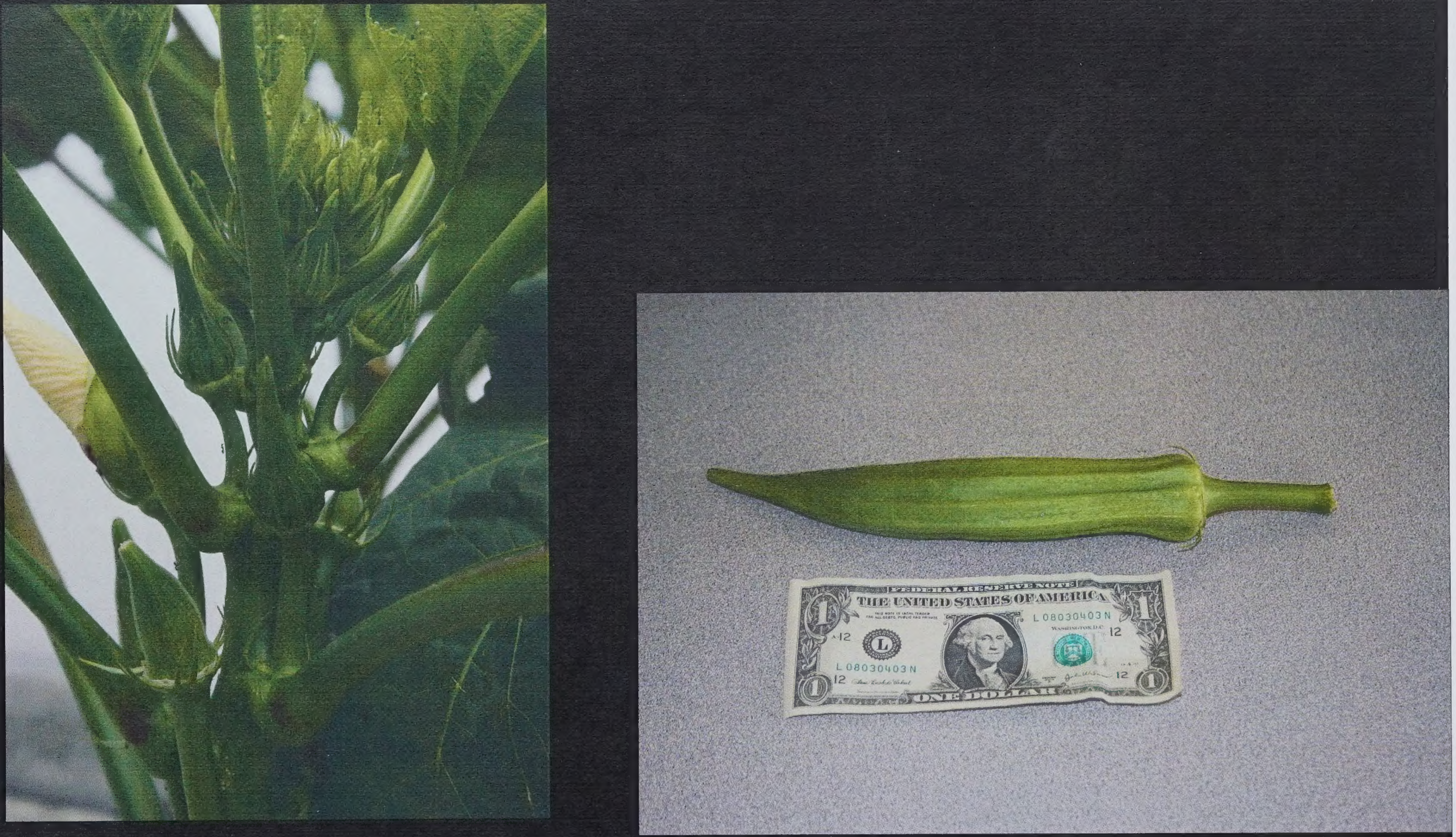


planting in rafts



rafts

tomatoes



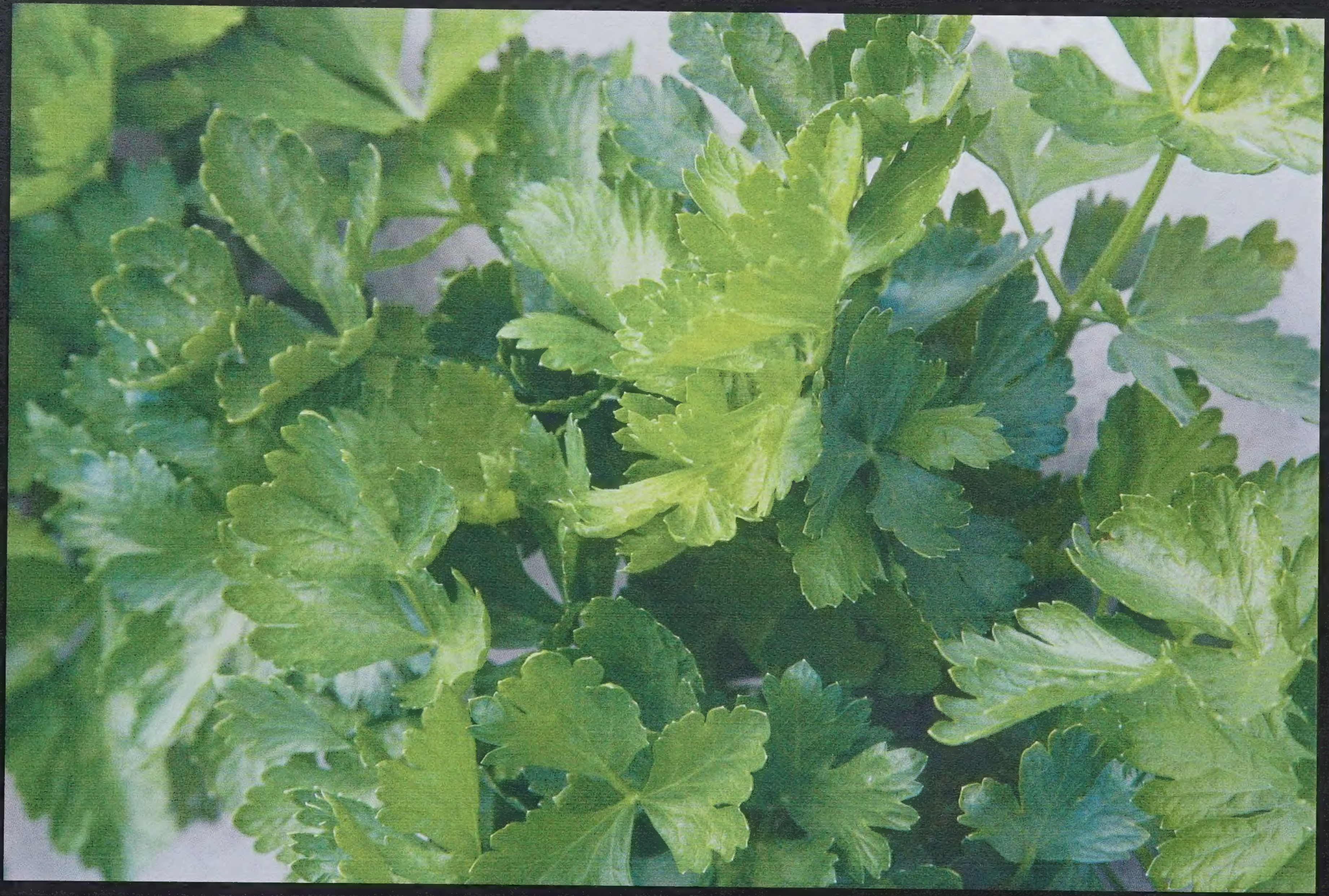
okra

LEAFY GREENS

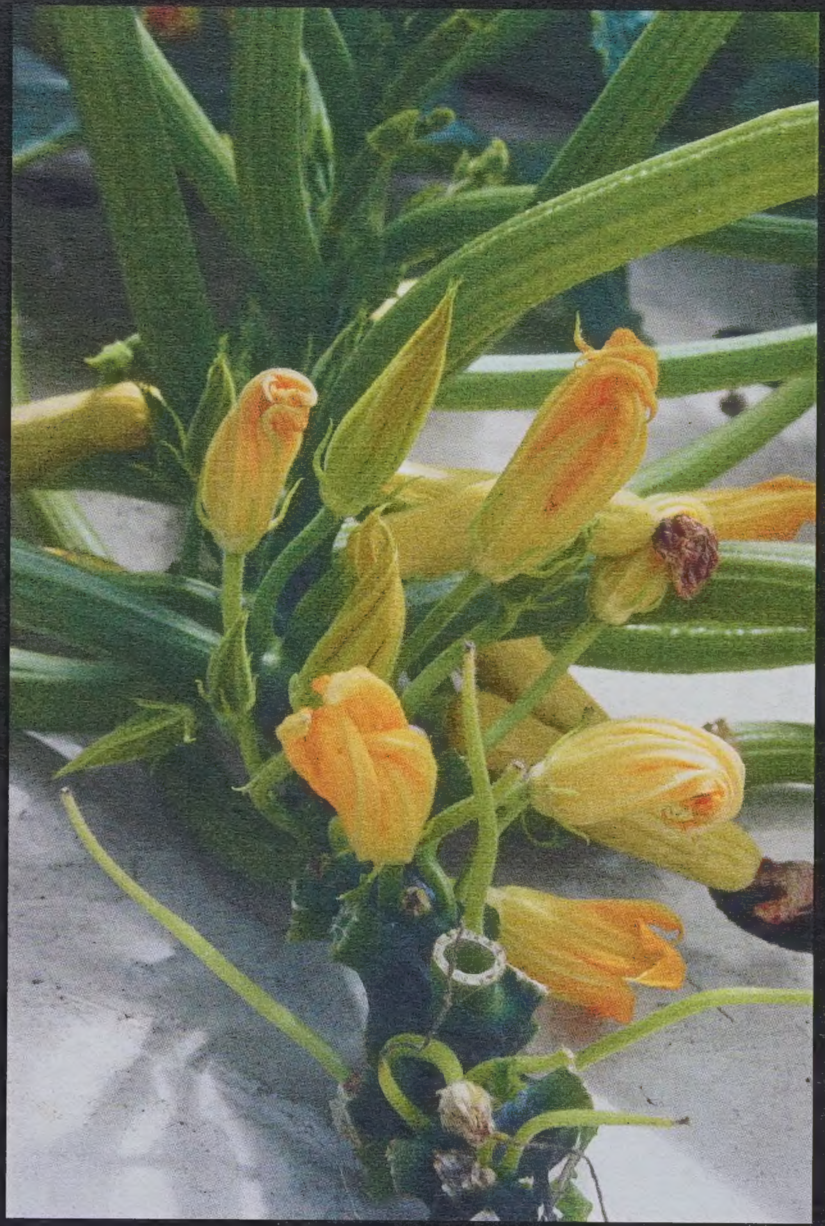
cucumber and zucchini

basil

lettuce



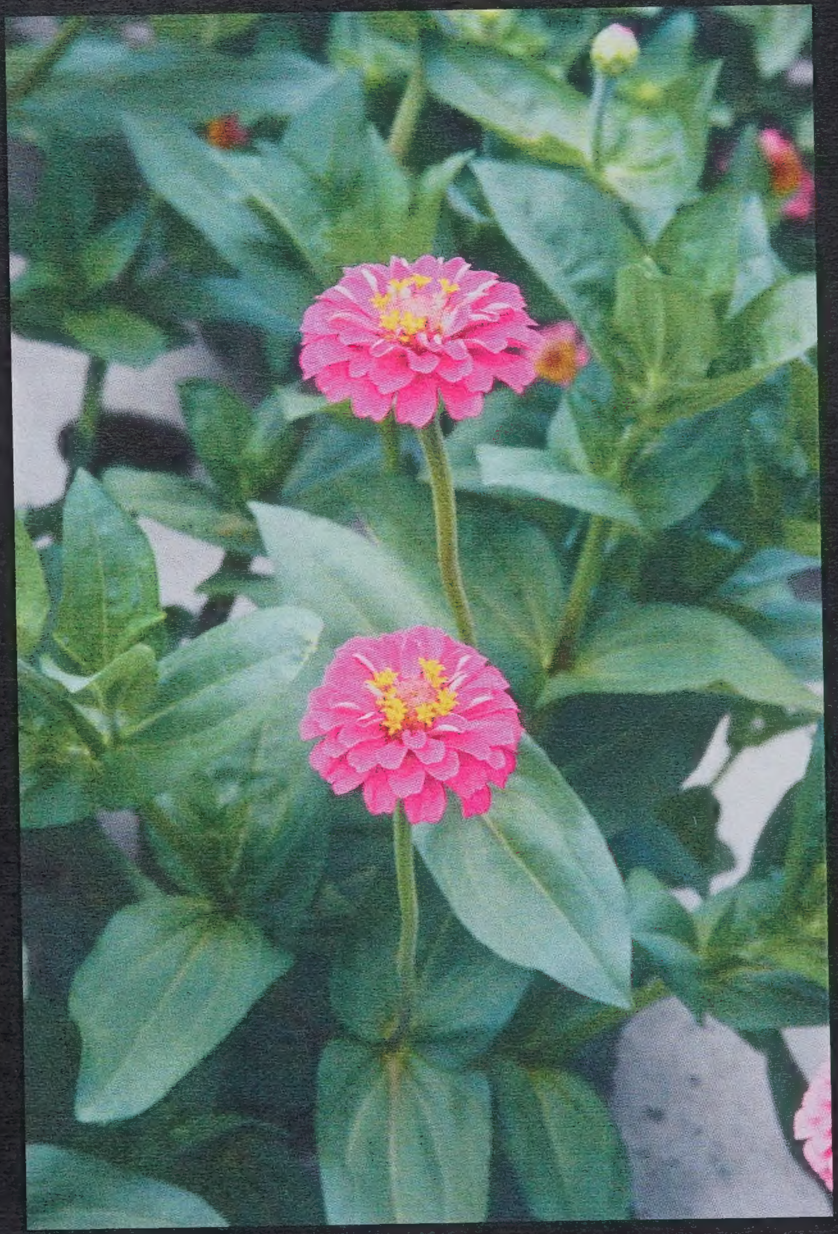
parsley



squash

chamomile

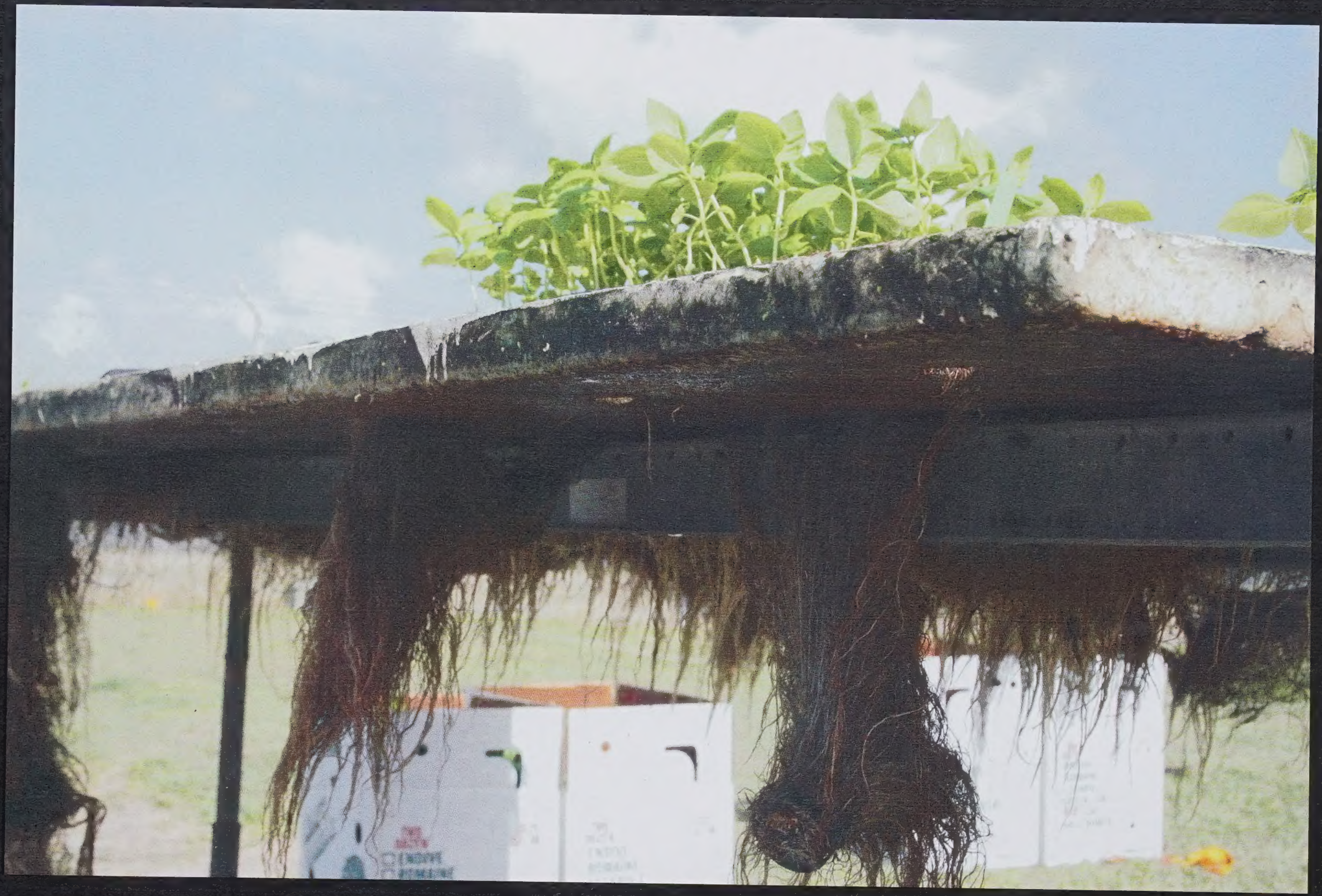
cantaloupe



zinnia

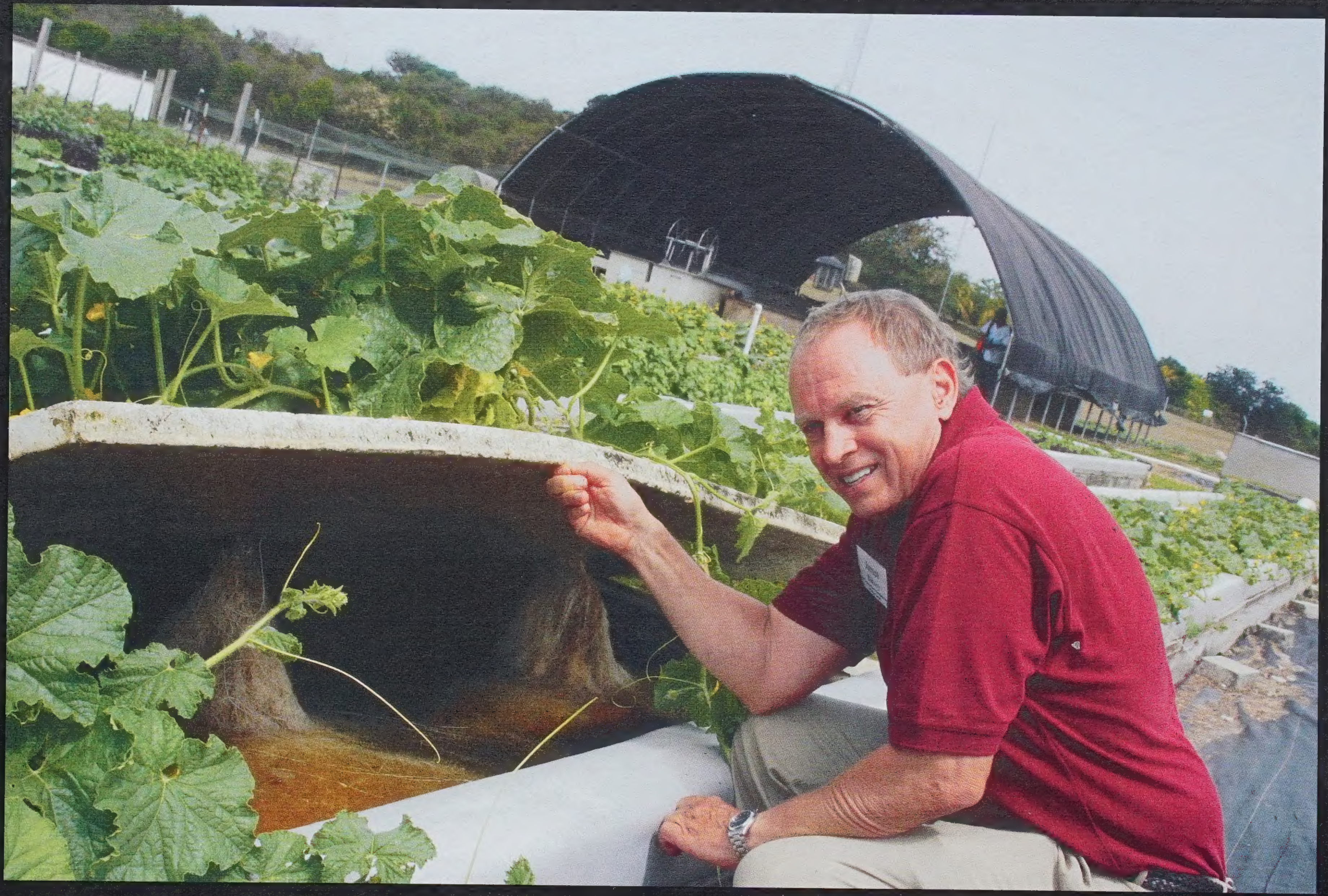
chive

watercress

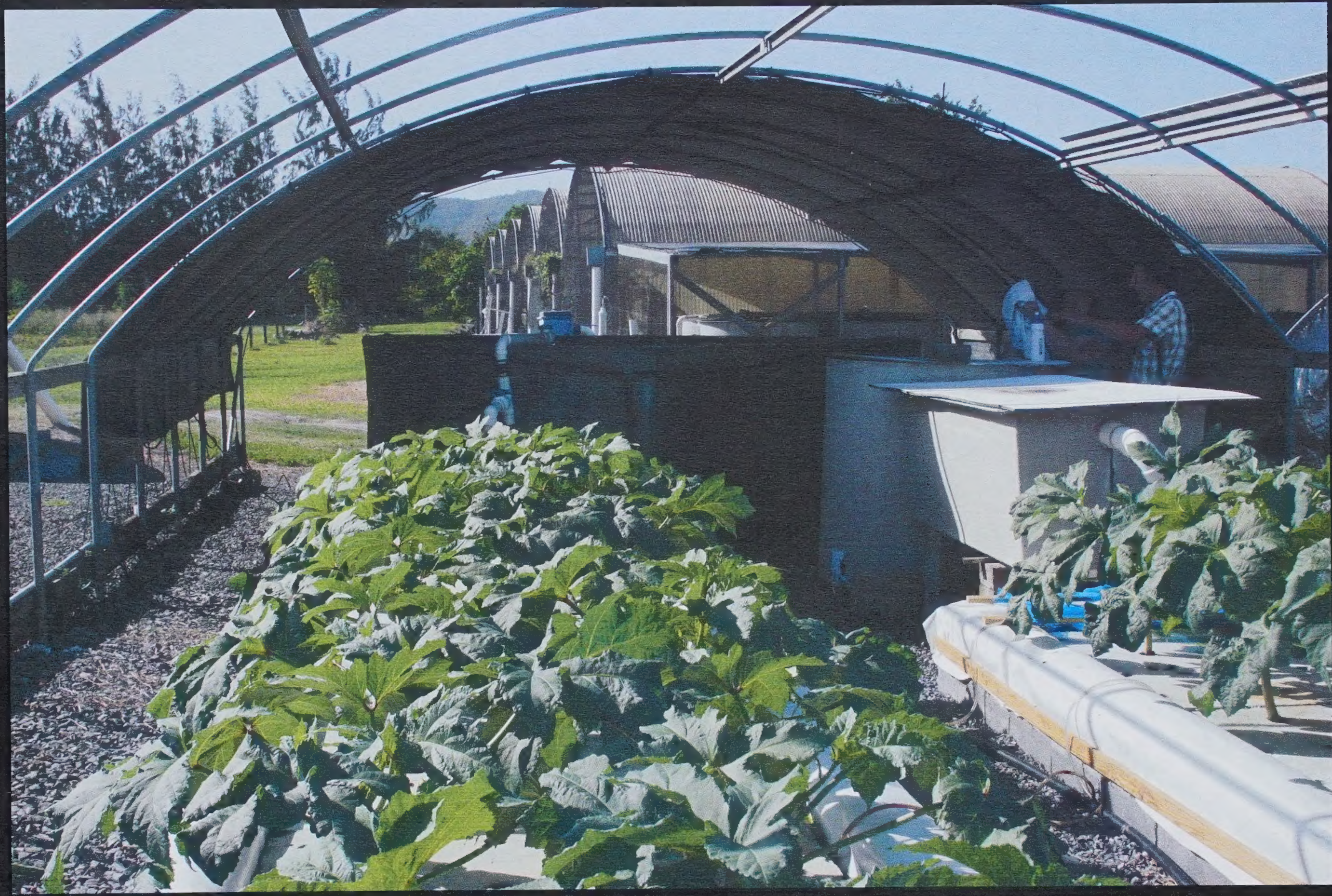


harvesting a raft

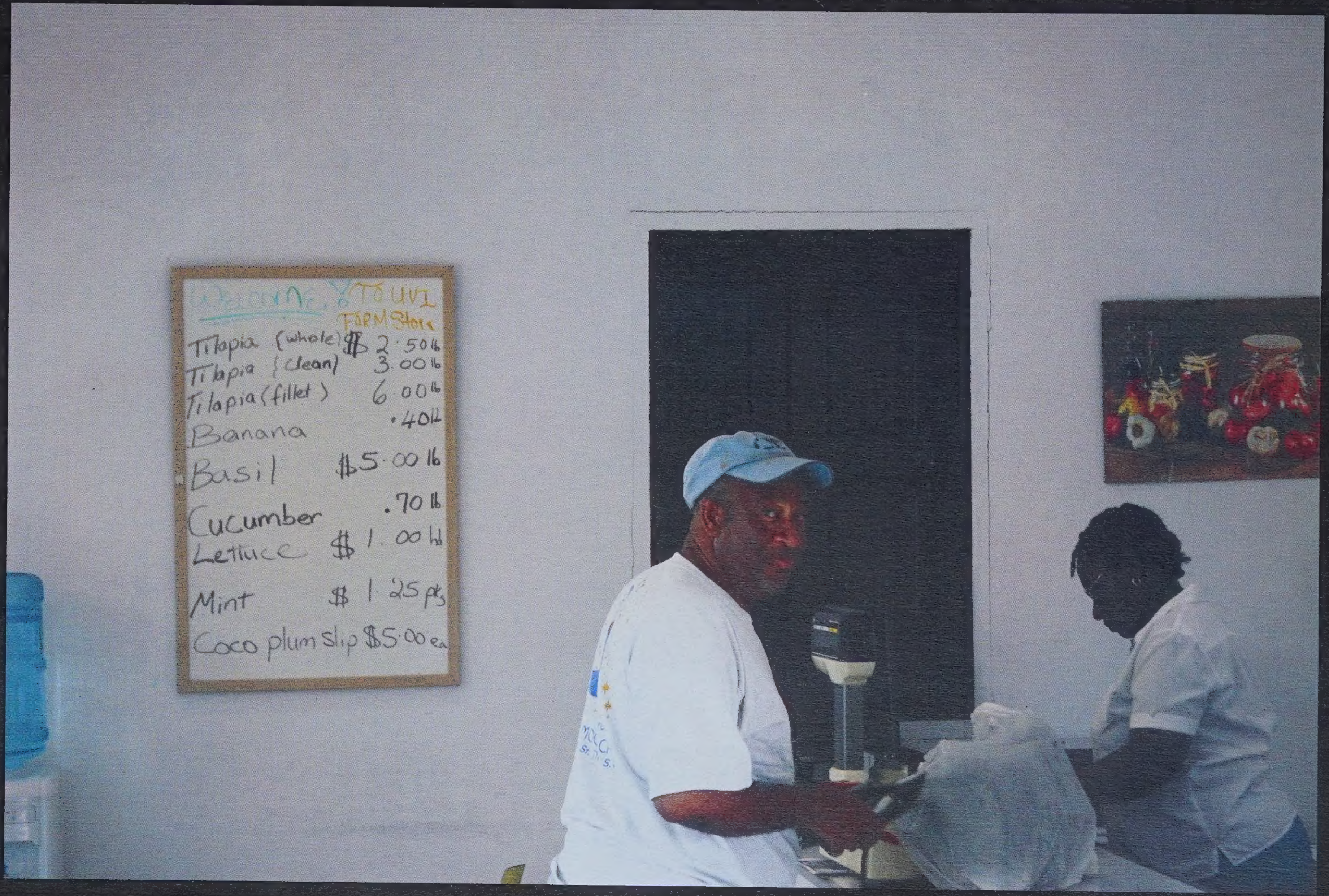
harvest into boxes



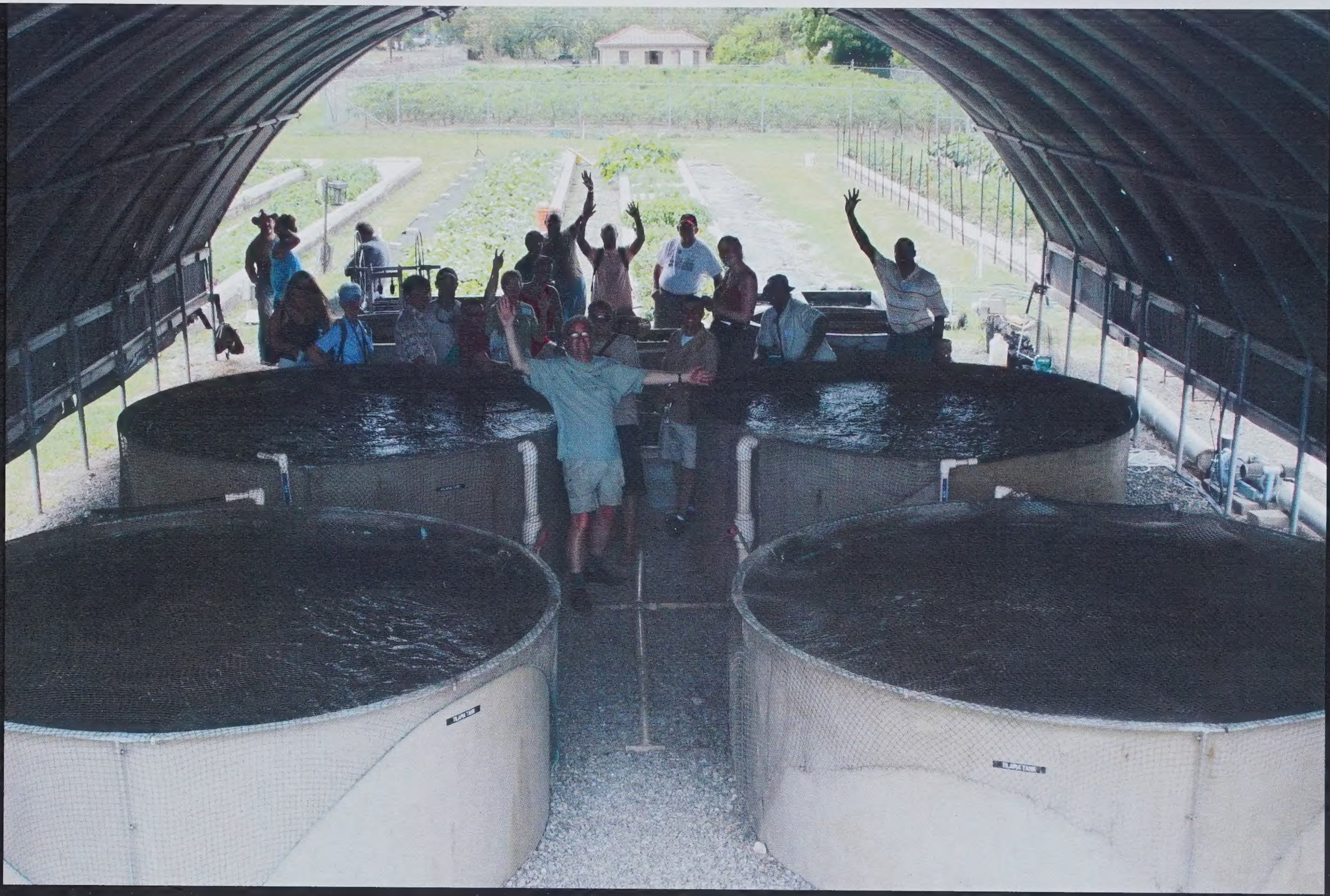
good growth in rafts



1 tank system


Welcome To UVI
FARM Store
Tilapia (whole) $ 2.50 lb
Tilapia (clean) 3.00 lb
Tilapia (fillet) 6.00 lb
Banana .40 lb
Basil $5.00 lb
Cucumber .70 lb
Lettuce $ 1.00 hd
Mint $ 1.25 pks
Coco plum slip $5.00 ea

Food Store



4 tank system

11k lbs of fish/year; 14k lbs of veggies

1/8 Acre, 5000 sq ft; 450gal H_2O/day

full team at uvi